

SCALABILITY 2024

The First International Conference on Systems Scalability and Expandability

November 17th – 21st, 2024

Valencia, Spain

SCALABILITY 2024 Editors

Petre Dini, IARIA, USA/EU

Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2024) by International Academy, Research, and Industry Association (IARIA) Please refer to the Copyright Information page.

Printed with permission by Curran Associates, Inc. (2025)

International Academy, Research, and Industry Association (IARIA) 412 Derby Way Wilmington, DE 19810

Phone: (408) 893-6407 Fax: (408) 527-6351

petre@iaria.org

Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400 Fax: 845-758-2633 Email: curran@proceedings.com Web: www.proceedings.com

Table of Contents

Total Cost of Ownership: Cloud-based vs. Onboard Vehicle Software Components Daniel Baumann, Martin Sommer, Eric Sax, Falk Dettinger, and Michael Weyrich	1
A Quantitative and Qualitative Comparison of Machine Learning Inference Frameworks <i>Egi Brako, Julian Kunkel, and Jonathan Decker</i>	7
Scalable Software Distribution for HPC-Systems Using MPI-Based File Systems in User Space Jakob Dieterle, Hendrik Nolte, and Julian Kunkel	14